

**In the Claims:**

Please cancel claims 23-51 and replace these claims with the following new claims:

52. (New) A method of cutting metal comprising:  
providing a cutting torch with a two part tip;  
positioning the cutting torch to cut metal;  
preheating the metal;  
fueling the torch with a combustible gas and oxygen from a liquid oxygen source,  
wherein said combustible gas is delivered to said cutting torch at a pressure between about 15  
and 80 psi; and  
forming a cut in the metal.
53. (New) The method of claim 52, wherein said combustible gas is selected from the group  
consisting of propane, chemtane, propylene, MAPP, and natural gas.
54. (New) The method of claim 52, wherein said combustible gas is selected from the group  
consisting of propane, chemtane, propylene, and natural gas.
55. (New) The method of claim 52, wherein said cutting torch tip matches a specific  
combustible gas utilized.
56. (New) The method of claim 52, wherein said metal is steel.
57. (New) The method of claim 52, further comprising cutting the metal at a rate of at least 3  
feet per minute.
58. (New) The method of claim 52, further comprising directing said fueled torch to said

metal at an angle of incidence of at least 45 degrees.

59. (New) A metal cutting apparatus comprising:  
combustible gas selected from a group consisting of: propane, chemtane,  
propylene, MAPP, and natural gas;  
a cutting torch with a two part tip;  
said apparatus being characterized to support said combustible gas at a pressure  
between about 35 and 80 psi;  
a regulator;  
lines;  
a heater;  
liquid oxygen, wherein said liquid oxygen is passed through said heater to said  
cutting torch characterized to support presence of oxygen gas at a pressure of at least 150  
psi, wherein said lines are free from frozen material.

60. (New) The apparatus of claim 59, wherein said combustible gas is selected from the  
group consisting of propane, chemtane, propylene, and natural gas.

61. (New) The apparatus of claim 59, wherein said cutting torch tip matches a specific  
combustible gas utilized.

62. (New) The apparatus of claim 59, wherein said metal is steel.

63. (New) The apparatus of claim 59, further comprising said torch to cut metal at a rate of at  
least 3 feet per minute.

64. (New) A method for cutting metal comprising:  
positioning a two part tip cutting torch relative to a surface;  
preheating a local area;

providing a combustible gas, wherein said combustible gas is selected from the group consisting of propane, chemtane, propylene, MAPP, and natural gas;  
employing an oxygen pressure of at least 150 psi;  
removing molten metal at an angle of reflection; and  
moving the cutting torch relative to a cut.

65. (New) The method of claim 64, wherein said cutting torch tip matches a specific combustible fuel utilized.

66. (New) The method of claim 64, further comprising cutting part of the metal at a rate of at least 3 feet per minute.

67. (New) The method of claim 64, further comprising adjusting the position of the torch to continue cutting.

68. (New) The method of claim 64, wherein said combustible gas is delivered to said cutting torch at a pressure of about 35 to about 80 psi.

69. (New) A metal cutting apparatus comprising:  
a cutting torch with a two part tip;  
said apparatus being characterized to support a combustible gas delivered to said cutting torch at a pressure between about 15 and 80 psi; and  
liquid oxygen, wherein the liquid oxygen is passed through a heater to the cutting torch, wherein the cutting torch is characterized to support presence of said oxygen at a pressure of at least 150 psi.

70. (New) The apparatus of claim 69, wherein said combustible gas is selected from the group consisting of propane, chemtane, propylene, and natural gas.

71. (New) The apparatus of claim 69, wherein said cutting torch tip matches a specific combustible gas utilized.

72. (New) A method of cutting metal comprising:

providing a cutting torch with a two part tip;

positioning the cutting torch to cut metal;

preheating the metal;

fueling the torch with a combustible gas and oxygen from a liquid oxygen source, wherein said combustible gas is provided to said cutting torch at a pressure between about 15 and 80 psi; and

cutting the metal at a rate of at least 24 inches per minute.

73. (New) The method of claim 72, wherein said combustible gas is selected from the group consisting of propane, chemtane, propylene, MAPP, and natural gas.

74. (New) The method of claim 72, wherein said combustible gas is selected from the group consisting of propane, chemtane, propylene, and natural gas.

75. (New) The method of claim 72, wherein said cutting torch tip matches a specific combustible fuel utilized.

76. (New) A method of cutting metal comprising:

providing a cutting torch with a two part tip;

positioning the cutting torch to cut metal;

preheating the metal;

fueling the torch with a combustible gas and oxygen from a liquid oxygen source, wherein said combustible gas is delivered to said cutting torch at a pressure between about 15 and 80 psi; and

cutting the metal at a rate of at least 5 feet per minute.

77. (New) The method of claim 76, wherein said combustible gas is selected from the group consisting of propane, chemtane, propylene, MAPP, and natural gas.

78. (New) The method of claim 76, wherein said combustible gas is selected from the group consisting of propane, chemtane, propylene, and natural gas.

79. (New) The method of claim 76, wherein said cutting torch tip matches a specific combustible fuel utilized.